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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,785	07/15/2003	Alexander S. Borovik	ATMI-665	7812	
7590 05/24/2005 ADVANCED TECHNOLOGY MATERIALS, INC.			EXAMINER		
			DENTZ, BERNARD I		
7 Commerce Dr Danbury, CT			ART UNIT	PAPER NUMBER	
,			1625		
			DATE MAILED: 05/24/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		
	Application No.	Applicant(s)
Office Action Summan	10/619,785	BOROVIK ET AL.
Office Action Summary	Examiner	Art Unit
The MAIL ING DATE of this account of	Bernard Dentz	1625
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timey within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>18 Fe</u> This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1,2,4-13,18-34,40,41,43-52 and 57-60 4a) Of the above claim(s) 18-34,40,41,43-52 and 57-60 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2,4-10 and 13 is/are rejected. 7) ⊠ Claim(s) 11 and 12 is/are objected to. 8) □ Claim(s) are subject to restriction and/o	nd 57-66 is/are withdrawn from co	
Application Papers		
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 23 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 	e: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Application ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)

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The restriction requirement is repeated and made final for the reasons of record.

Non-elected claims 18-34, 40, 41,43-52 and 57-66 are withdrawn from consideration.

Claims 1,2 and 4-13 drawn to the elected compounds are under consideration.

Claims 1,2,6,10 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by R.N. 18191-70-3 which is

Me Si Si Me

See attached print-out.

Claims 1,2,4 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by

R.N. 266337-39-7 which is

OME

OME

OME

See attached print-out.

Claims 1,2,4 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by

R.N. 17611-73-3 which is

See attached print-out.

Claims 1,2,4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by R.N. 30423-45-1 of the structure

Claims 1,2,4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by R.N. 23820-01-1 of the structure $2-5i-(0E+)_3$ See attached print-out.

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See attached print-out.

Claims 1,2,4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by

R.N. 33979-86-1 of the structure

|n -Si-OE+ |bh

See attached print-out.

Claims 1,2,4 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by

R.N.415708-50-8 of the structure

 CH_2 - CH_2 - CH_2 - CH_3 - C

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by R.N.

60484-85-7 of the structure

Claims 1, 2 and 4-9 are rejected under 35 U.S.C. 102(b) as being anticipated by CA 108:206543, the Chem. Abstract of Behrendt et al German (East) DD 247458. It discloses a genus epoxides as a reactant in the preparation of polymeric carriers useful. in molecular biology, chromatography, etc. The compound of R.N. 17611-73-3 (see above) is exemplified.

Claims 1, 2 and 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over CA 108:206543 supra. In view of the generic disclosure overlapping the instant compounds narrower portions of the genus are rendered obvious.

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. "n" is not defined.

The first 2 compounds of claim 10, which are the species claimed in claims 10 and 11 respectively are deemed to be allowable. The Examiner will not allow applicants to amend the claims around the art or to broaden these 2 compounds in any way. The reason for this is that there is no supported sub-genus containing these compounds that is supported by the disclosure. Further note the considerable art of which only a fraction has been illustrated.

Note that at p. 25 in Ex. 2 in the third line of instructions that a CH₂ group is missing from the Si containing reactant.

If applicants limit the claims to the 2 above mentioned compounds a supported method of making them and a method of making a low K, high strength dielectric film using them will be considered.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Dentz whose telephone number is 571-272-0683. The examiner can normally be reached on Mon-Fri from 8 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang, can be reached on 571 272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dentz

5-13-2005

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